re-run

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/812,485A
Source: IFW16
Date Processed by STIC: 8/13/01

ENTERED

IFW16

RAW SEQUENCE LISTING DATE: 11/16/2004
PATENT APPLICATION: **US/09/812,485A** TIME: 16:20:19

Input Set : **N:\AMC\US09812485A.raw**
Output Set: **N:\CRF4\11162004\I812485A.raw**

<110> APPLICANT: Kumagai, Yoshinari
Blacher, Russel
Yoneda, Toshiyuki
<120> TITLE OF INVENTION: Integrin Binding Motif Containing
Peptides and Methods of Treating Skeletal Diseases
<130> FILE REFERENCE: BEAR-006CIP
C--> **<140> CURRENT APPLICATION NUMBER: US/09/812,485A**
<141> CURRENT FILING DATE: 2001-03-19
<150> PRIOR APPLICATION NUMBER: 09/641,034
<151> PRIOR FILING DATE: 2000-08-16
<160> NUMBER OF SEQ ID NOS: 50
<170> SOFTWARE: FastSEQ for Windows Version 4.0

<210> SEQ ID NO: 1
<211> LENGTH: 97
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 1

```
Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
 1               5                  10                  15
Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
            20                  25                  30
Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu Arg
        35                  40                  45
Gly Asp Asn Asp Ile Ser Pro Phe Ser Gly Asp Gly Gln Pro Phe Lys
    50                  55                  60
Asp Ile Pro Gly Lys Gly Glu Ala Thr Gly Pro Asp Leu Glu Gly Lys
65                  70                  75                  80
Asp Ile Gln Thr Gly Phe Ala Gly Pro Ser Glu Ala Glu Ser Thr His
                85                  90                  95
Leu
```

<210> SEQ ID NO: 2
<211> LENGTH: 47
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 2

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Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg Ile Gln His
 1               5                  10                  15
Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser
            20                  25                  30
```

RAW SEQUENCE LISTING DATE: 11/16/2004
PATENT APPLICATION: **US/09/812,485A** TIME: 16:20:19

Input Set : **N:\AMC\US09812485A.raw**
Output Set: **N:\CRF4\11162004\I812485A.raw**

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46       Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu Arg Gly Asp
47                35                  40                  45
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 47
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: peptidic compound
55 <400> SEQUENCE: 3
56       Arg Gly Asp Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
57        1               5                  10                  15
58       Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
59                   20                  25                  30
60       Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
61                35                  40                  45
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 47
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: peptidic compound
69 <400> SEQUENCE: 4
70       Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
71        1               5                  10                  15
72       Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
73                   20                  25                  30
74       Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Arg Gly Asp
75                35                  40                  45
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 44
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: peptidic compound
83 <400> SEQUENCE: 5
84       Arg Gly Asp Ser Pro Val Lys Ser Lys Ser Thr His Arg Ile Gln His
85        1               5                  10                  15
86       Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser
87                   20                  25                  30
88       Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
89                35                  40
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 44
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: peptidic compound
97 <400> SEQUENCE: 6
98       Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
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RAW SEQUENCE LISTING DATE: 11/16/2004
PATENT APPLICATION: US/09/812,485A TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw
Output Set: N:\CRF4\11162004\I812485A.raw

```
99          1               5                  10                  15
100         Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
101                     20                  25                  30
102         Ile Pro Ser Asp Phe Glu Gly Ser Gly Arg Gly Asp
103                 35                  40
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 37
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: peptidic compound
111 <400> SEQUENCE: 7
112         Arg Gly Asp Thr His Arg Ile Gln His Asn Ile Asp Tyr Leu Lys His
113          1               5                  10                  15
114         Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr
115                     20                  25                  30
116         Thr Asp Leu Gln Glu
117                 35
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 41
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: peptidic compound
125 <400> SEQUENCE: 8
126         Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
127          1               5                  10                  15
128         Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
129                     20                  25                  30
130         Ile Pro Ser Asp Phe Glu Arg Gly Asp
131                 35                  40
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 27
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: peptidic compound
139 <400> SEQUENCE: 9
140         Arg Gly Asp Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser Asp
141          1               5                  10                  15
142         Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
143                     20                  25
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 38
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: peptidic compound
151 <400> SEQUENCE: 10
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RAW SEQUENCE LISTING DATE: 11/16/2004
PATENT APPLICATION: US/09/812,485A TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw
Output Set: N:\CRF4\11162004\I812485A.raw

```
152       Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
153        1               5                  10                  15
154       Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
155                   20                  25                  30
156       Ile Pro Ser Arg Gly Asp
157               35
159 <210> SEQ ID NO: 11
160 <211> LENGTH: 24
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: peptidic compound
165 <400> SEQUENCE: 11
166       Arg Gly Asp Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly
167        1               5                  10                  15
168       Ser Gly Tyr Thr Asp Leu Gln Glu
169                   20
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 32
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: peptidic compound
177 <400> SEQUENCE: 12
178       Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
179        1               5                  10                  15
180       Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Arg Gly Asp
181                   20                  25                  30
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 21
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: peptidic compound
189 <400> SEQUENCE: 13
190       Arg Gly Asp Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr
191        1               5                  10                  15
192       Thr Asp Leu Gln Glu
193                   20
195 <210> SEQ ID NO: 14
196 <211> LENGTH: 28
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: peptidic compound
201 <400> SEQUENCE: 14
202       Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
203        1               5                  10                  15
204       Ile Gln His Asn Ile Asp Tyr Leu Lys Arg Gly Asp
```

RAW SEQUENCE LISTING DATE: 11/16/2004
PATENT APPLICATION: US/09/812,485A TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw
Output Set: N:\CRF4\11162004\I812485A.raw

```
                    20                  25
<210> SEQ ID NO: 15
<211> LENGTH: 18
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 15
      Arg Gly Asp Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu
       1               5                  10                  15
      Gln Glu
<210> SEQ ID NO: 16
<211> LENGTH: 25
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 16
      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
       1               5                  10                  15
      Ile Gln His Asn Ile Asp Arg Gly Asp
                    20                  25
<210> SEQ ID NO: 17
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 17
      Arg Gly Asp Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
       1               5                  10                  15
<210> SEQ ID NO: 18
<211> LENGTH: 19
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 18
      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
       1               5                  10                  15
      Arg Gly Asp
<210> SEQ ID NO: 19
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptidic compound
<400> SEQUENCE: 19
      Arg Gly Asp Gly Ser Gly Tyr Thr Asp Leu Gln Glu
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/16/2004
PATENT APPLICATION: US/09/812,485A TIME: 16:20:20

Input Set : N:\AMC\US09812485A.raw
Output Set: N:\CRF4\11162004\I812485A.raw

ase Note:
of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:43; Xaa Pos. 2,4,6,8,10,11
#:50; Xaa Pos. 3

VERIFICATION SUMMARY DATE: 11/16/2004
PATENT APPLICATION: **US/09/812,485A** TIME: 16:20:20

Input Set : **N:\AMC\US09812485A.raw**
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M:270 C: Current Application Number differs, Wrong Format
42 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
45 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43
46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
55 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
67 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45
79 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
81 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46
91 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
03 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
05 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48
15 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
17 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49
29 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
30 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0